

The Commercial Technologies for Maintenance Activities (CTMA) Program

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Website: <http://ctma.ncms.org>

NCMS Background

- Established 1986
 - Not-for-profit cooperative research corporation
 - National Cooperative Research Act 1984
- Mission
 - Make manufacturers in North American more globally competitive
 - Enhance national security
- Industry driven
- Initial funding
 - National Machine Tool Builders Association (now AMT), DoD, State of Michigan



Who We Are

...a diverse array of industries

NCMS

Electronics

Heavy Equipment

SIEMENS

Controls



Computers



Raytheon



Machine Tools



Software

Baxter

Aircraft

Pharmaceuticals



Health Care



Lucent Technologies
Bell Labs Innovations



Bearings

LOCKHEED MARTIN



Hamilton Standard
A United Technologies Company



Food



Aerospace



Automotive

EXTRUDEHONE



Sensors

DAIMLERCHRYSLER

Communications



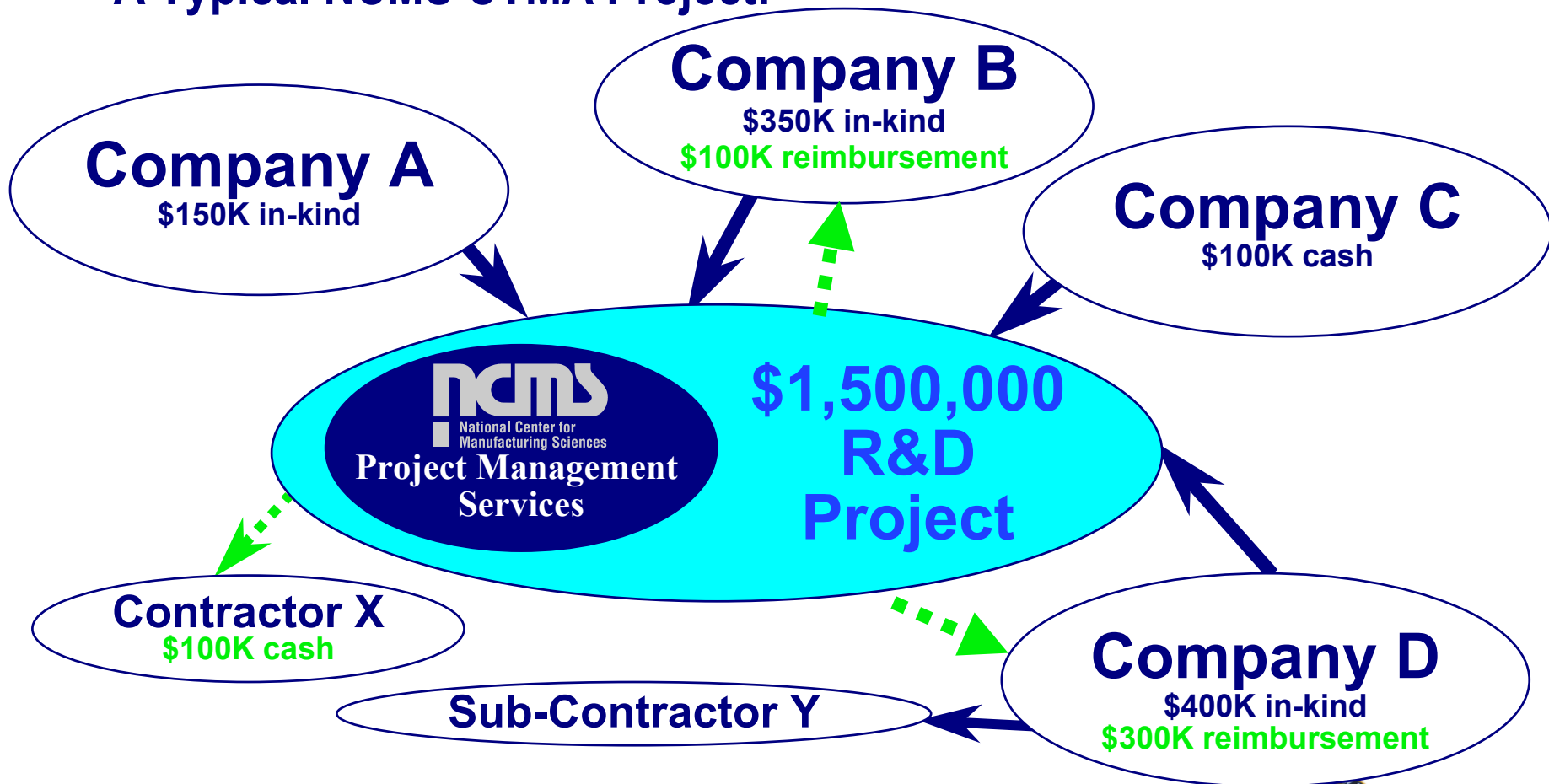
Who We Are:

- 35 people with impressive R&D collaboration skills ...
 - Technical/Engineering in a wide variety of disciplines
 - Finance/Accounting, including DoD Certified Systems
 - Information Access and Retrieval
 - Government Relations/Liaison
 - Communications/Design
 - Government and Private Sector Contracting
 - Information Systems Specialists
- Located in Ann Arbor, Michigan, and Washington, DC
- With NO laboratory facilities
- Have managed over \$500 Million of Collaborative Manufacturing R&D Projects

What We Do:

- Industry Collaborative Projects

A Typical NCMS CTMA Project:



CTMA Program Mission

- Identify, form, launch and deploy new projects coupling the needs and strengths of commercial industry with the DoD maintenance and repair facilities.
- Focus on reducing overall costs.

Why Would Industry Participate?

- DoD facilities offer base for technology demonstrations and piloting
- Leveraging of resources through collaboration
- Funding for high risk emerging technology solutions

CTMA Program Overview

- Cooperative Agreement between NCMS and the Office of the Secretary of Defense
- Administered by Office of Maintenance Programs, Resources and Planning
- Multi-year Funding Agreement

CTMA Cooperative Agreement Highlights

- Funding for Direct Contract support to develop and demonstrate technologies
- Focus on cost reduction within DoD Organic Maintenance Activities (Depot Level)
- Requires a \$2 to \$1 Industry cost share on all technology development funding
- Provides for property disposition, IPR protection, and collaborative umbrella for all participants

Who Participates (DoD facilities)

- *Tobyhanna AD*
- *Corpus Christi AD*
- Red River AD
- *Anniston AD*
- *Norfolk NSY*
- *Portsmouth NSY*
- *Pearl Harbor NSY*
- *Puget Sound NSY*
- *MC3 Albany*
- *MC3 Barstow*
- Davis-Monthan
- Aviation Classification Repair Depots
 - Groton, CT; Springfield, MO
- Pope AFB, NC
- Langley AFB, VA
- *NADEP North Island*
- *NADEP Jacksonville*
- *NADEP Cherry Point*
- *OC-ALC*
- *Ogden ALC*
- *WR-ALC*
- *Trident Kings Bay*
- *Camp Pendleton*
- *Philadelphia Foundry*
- Navy Spawar
- *DMEA*
- Ft. Hood, TX
- Fort Rucker, AL
- Aviation/Ship Interm. Maint. Fac.
 - Norfolk; San Diego
- NWSC, Crane, IN

CTMA Project Launch Criteria

- Begins with a concept (~5 pages long)
- Joint Industry/DoD interest and needs
- Cost/Benefits summary sketched out
- Participant roles defined
- Identify industry champion
- Support within Depot for care and custody of program deliverables
- Submission of concept to OSD
- 10 day turnaround for approval...

Elements of the Concept Paper

- Concept Paper: Title
- Statement of Problem
- Proposed Solution
- Deliverables (A final report is not sufficient. Projects should deliver a product or service to the repair facility.)
- Benefits
 - What quantifiable benefits are to be expected from this project. (we need to generate an ROI for the project)
 - What performance measurements are going to be undertaken during the project
- Anticipated Participants (DoD, Industry Partners, other government or academic facilities)
- Estimated Cost and Duration
 - Total Cost Estimate:
 - Cost Sharing Estimates include: All projects require a 2:1 industry cost-share component, which can include materials, equipment usage, staff hours, travel, background technology being given to the project, testing, and most any effort that is used to achieve the project goals.
 - Requested Contract Funding:

ATE Program Translator Project
CTMA PROJECT FORMATION REQUIREMENTS

REQUIRED ITEM	Participants						
	Depot 1	Depot 2	Industry Lead	Industry 2	Industry 3	Industry 4	NCMS
Concept Paper , 5-7 pages	S	S	P	S	S	S	S
Project Title	S	S	P	S	S	S	S
Problem Statement	S	S	P	S	S	S	S
Proposed Solution	S	S	P	S	S	S	S
Anticipated Participants	P	S	P	S	S	S	P
SOW / Proposal: Key Industry Effort/Tasks & Technical POC	S	S	P	P	P	P	S
Expected Deliverables	P	P	P	S	S	S	S
Anticipated Schedule/Duration	S	S	P	S	S	S	S
Depot Cost/Benefit Estimate	P	P	S	N/A	N/A	N/A	S
Depot Letters of Endorsement from CO	P	P	S	N/A	N/A	N/A	S
Industry Cost Summary (and validation by NCMS)	N/A	N/A	P	P	P	P	S
Estimated Cost Share	N/A	N/A	P	P	P	P	S
Requested Contract Funding	N/A	N/A	P	P	P	P	S
Total Project Cost Rollup	N/A	N/A	N/A	N/A	N/A	N/A	P
NCMS Submits to DoD OSD	N/A	N/A	N/A	N/A	N/A	N/A	P
DoD OSD Approval	N/A	N/A	N/A	N/A	N/A	N/A	S
Post DoD Approval:							
Statement of Work Finalized (what-when-who)	S	S	P	S	S	S	S
Industry Points of Contact Info	N/A	N/A	P	P	P	P	S
Generate the Collaborative Agreements	N/A	N/A	N/A	N/A	N/A	N/A	P
NCMS Membership	N/A	N/A	AT AWARD	AT AWARD	AT AWARD	AT AWARD	N/A
Contract Agreement(s) Signatures	N/A	N/A	P	P	P	P	P

NOTES:

- 1) Two or more depots required (cross services is preferred)
- 2) Two or more industry participants required (a collaboration)
- 3) A minimum ratio of 2:1 for industry cost share to contract cost

KEY:

P = Primary provider responsibility
S = Supporting responsibility
N/A = Not applicable

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**Commercial Technologies for
Maintenance Activities (CTMA)**



Getting Involved and Staying Informed

- Project Ideas
 - Submit directly to NCMS Staff
 - Respond via website or e-mail (<http://ctma.ncms.org>)
- CTMA Website <http://ctma.ncms.org>
- The CTMA Connector Newsletter
- Annual Maintenance Activities Symposium
- NCMS Executive Director:
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2004 CTMA Symposium

Stone Mountain, GA

3/30 - 4/02 Tentative